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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,353	10/08/2002	Chin-Lin Chang	09157-US-PA	3998

31561 7590 02/27/2006

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE
7 FLOOR-1, NO. 100
ROOSEVELT ROAD, SECTION 2
TAIPEI, 100
TAIWAN

EXAMINER

LEE, CHEUKFAN

ART UNIT PAPER NUMBER

2627

DATE MAILED: 02/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/065,353

Applicant(s)

CHANG ET AL.

Examiner

Cheukfan Lee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 October 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 and 13-22 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 11 and 12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 October 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

1. Claims 1-22 are pending. Claims 1, 10 and 19 are independent.
2. This application is in condition for allowance except for the following formal matters:

In claims 11 and 12, "the guiding mechanism", and thus "the moving direction of the guiding mechanism", lack antecedent basis. It is unclear as in what "the guiding mechanism" is referring to.

Claims 11 and 12 are objected to in this Office Action.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

3. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowable over the prior art of record because the prior art, including Chen (U.S. Patent No. 6,707,582), Tsai et al. (U.S. Patent No. 6,392,762), Tsai et al. (U.S. Patent No. 6,381,043), and Tsai (U.S. Patent No. 6,728,011), all also cited in section 4 below, does not teach an image addressing device comprising the plurality of geometric patterns located on an enclosure of a scanner, the comparator, AND gate circuit and counter as claimed, wherein the geometric patterns have a color scale different from a background color of the enclosure of the scanner, each of the geometric

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patterns comprises a plurality of rows of pixels, and each row of pixels includes a number of pixels variable along a moving direction of the guiding device of the scanner. The closest prior art Chen, Tsai et al. and Tsai disclose a pattern or patterns similar to those claimed, but they do not disclose the claimed comparator, AND gate circuit and counter in combination with the patterns, rows of pixels of which are extracted one by one by an image extraction converter. See Figs. 3-5 of Chen (6,707,582), Figs. 4-6F of Tsai et al. (6,392,762), Figs. 4-6G of Tsai et al. (6,381,043), and Figs. 5-7 of Tsai (6,728,011).

Claim 10 limitations similar to those of claim 1, except that the image extraction converter extracts one of the rows of pixels and converts the row of pixels into a series of digital signals, as opposed to a series of analog signals as claimed in claim 1, and the comparator and counter work with the digital signals as opposed to analog signals as claimed in claim 1. The geometric patterns as defined in combination with the image extraction converter, the comparator and counter are not taught by the prior art of record, including Chen (6,707,582), Tsai et al. (6,392,762) and Tsai (6,728,011) mentioned above.

Claim 19 defines the geometric patterns a bit differently than claims 1 and 10, i.e., the geometric patterns are defined to have a color scale different from a background color of the scanner enclosure, each of the patterns comprising a plurality of rows of pixels and having the same maximum row width and the maximum length. The

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geometric patterns in combination with the claimed image extraction converter, pixel row counter, interpolation counter, and zone counter is not taught by the prior art of record, including Chen (6,707,582), Tsai et al. (6,392,762) and Tsai (6,728,011) mentioned above.

Claims 2-9 depend on claim 1. Claims 11-18 depend on claim 10. Claims 20-22 depend on claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chen (U.S. Patent No. 6,707,582), "Scanning device capable of calibrating step angle errors", Figs. 3-5

Tsai et al. (U.S. Patent No. 6,392,762), "Device for quick and precise determination of scan start point for image scanner", Figs. 4-6F

Tsai et al. (U.S. Patent No. 6,381,043), "Device used in image scanner for quickly and precisely determining scan start point and improving scanning quality", Figs. 4-6G

Tsai (U.S. Patent No. 6,728,011), "Method of adjusting scanner module and device thereof, Figs. 5-7

Tsai (U.S. Patent No. 6,229,629), "Device and method for quick and precise determination of scan start point for image scanner"

Sakaguchi (U.S. Patent No. 6,961,155), "Image reading apparatus, default value adjusting method of image reading apparatus, and chart original"

Tsai et al. (U.S. Patent No. 6,278,808), "Method and apparatus for obtaining relative and absolute modifying factors for image scanning apparatus"

Wada et al. (U.S. Patent No. 5,949,922), "Image reading apparatus"

watanabe (U.S. Patent No. 5,539,532), "Image reading apparatus with varied subscanning speed"

Kamisuwa (U.S. Patent No. 6,728,008), "Method for diagnosing optical devices installed in image reading apparatus and image forming apparatus"

Wu (U.S. Patent No. 6,480,317), "Scanning apparatus capable of locating the scanning starting point thereof"

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheukfan Lee whose telephone number is (571) 272-7407. The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cheukfan Lee
February 16, 2006


Cheukfan Lee